



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Robert A. Adolph

Serial No.: 09/929,680

Filed: 08/14/01

For: Neutron Burst Timing Method and System for  
Multiple Measurement Pulsed Neutron  
Formative Evaluation

) Docket: 24.0842

) Group Art Unit: 287

) Examiner: N/A

RECEIVED  
JUN 27 2002  
TECHNOLOGY CENTER 2800

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any document referenced as being attached or enclosed hereto) is being deposited with the United States Postal Service in an envelope as First Class Mail addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

Kerry Morris 6/19/02  
Kerry Morris Date

Assistant Commissioner for Patents  
Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

The attached Form PTO-1449 is submitted to the United States Patent and Trademark Office under the provisions of 37 CFR 1.97-1.98. A copy of each reference is enclosed.

Each reference was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

No fees are believed to be due in connection with this filing, however, should any fees be deemed necessary, please charge any necessary fees to the deposit account for Schlumberger Technology Corporation, Account No. 19-0610.

Respectfully Submitted,

Victor H. Segura  
Victor H. Segura  
Registration Number 44,329

Date:

18-Jun-02

Schlumberger Technology Corporation  
IP Law Department  
P. O. Box 2175  
Houston, TX 77252-2175  
Tel.: (281) 285-4562



INVESTOR IN PEOPLE

Schlumberger Holdings Ltd &  
Japan National Oil Corporation  
% B D Stoole  
WesternGeco Limited  
Schlumberger House  
Buckingham Gate, Gatwick  
West Sussex RH6 0NZ

**The Patent Office  
Patents Directorate**

Concept House  
Cardiff Road, Newport  
South Wales NP10 8QQ

Examiner: 01633 814679  
E-mail: [geoffrey.holmes@patent.gov.uk](mailto:geoffrey.holmes@patent.gov.uk)  
Switchboard: 01633 814000  
Fax: 01633 814444  
Minicom: 08459 222250  
DX 722540/41 Cleppa Park 3  
<http://www.patent.gov.uk>

Your Reference: 24.0842  
Application No: GB 0122631.5

28 May 2002

Dear Sirs

**Patents Act 1977:  
Combined Search and Examination Report under Sections 17 and 18(3)**

Latest date for reply: 

28 November 2002
------------------

I enclose two copies of my search and examination report and a copy of the citations.

By the above date you should either file amendments to meet the objections in the report or make observations on them. If you do not, the application may be refused.

**Publication**

I estimate that, provided you have met all formal requirements, preparations for publication of your application will be completed soon after **25 June 2002**. You will then receive a letter informing you of completion and telling you the publication number and date of publication.

**Amendment/withdrawal**

If you wish to file amended claims for inclusion with the published application, or to withdraw the application to prevent publication, you must do so before the preparations for publication are completed. **No reminder will be issued.** If you write to the Office less than 3 weeks before the above completion date, please mark your letter prominently: **"URGENT - PUBLICATION IMMINENT"**.



INVESTOR IN PEOPLE

Application No: GB 0122631.5

Page 2

28 May 2002

Yours faithfully

Geoff Holmes  
Examiner

**Important information about combined search and examination**

I also ask that you take note of the following points. These might have a bearing on the future stages of your application because the examination report has been sent to you before your application has been published.

- (a) You may file voluntary amendments before making a full response to my examination report. We will publish with your application any new or amended claims you file voluntarily or as a full response, provided that they are received before preparations for publication are completed. It would help us when you file amendments before publication if you could **prominently indicate** in a covering letter whether or not the amendments are intended as a full response to the examination report.
- (b) If you file a full response to the examination report before your application is published I will consider it as soon as possible. However, if this would disrupt the publication of your application, I would have to delay taking any action until the application had been published. This delay could be up to 3 months, depending upon when we receive your response.
- (c) There is another situation when there might be a delay between you filing a full response and the Patent Office responding to it. This would arise if you met all my objections but your application had not or had only recently been published. I could not report the outcome of my re-examination until I was satisfied that the search was complete for documents published before the priority date of your invention and that anybody interested in the application has had three months following publication of the application to make observations on the patentability of your invention.
- (d) Provided that the requirements of the Act have been met, I can send your application to grant as early as three months after publication. Before doing so I will bring the original search up to date and raise with you any further objection that might result from this top-up search. However, there is a possibility that at that time I may not have access to all the patent applications published after the priority date of your invention and of possible relevance to your application. If this is the case I would have to complete the search after grant and if necessary raise any new found novelty objection then.



INVESTOR IN PEOPLE

Application No: GB 0122631.5  
Claims searched: All

Examiner: Geoff Holmes  
Date of search: 27 May 2002

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): G1A (ACL)

Int Cl (Ed.7): G01V 5/10

Other: Online: WPI, EPODOC, JAPIO, INSPEC

### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
A	US 6032102 A [WIJEYESEKERA et al.]	
A	US 4926044 A [WRAIGHT]	

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.  
E Patent document published on or after, but with priority date earlier than the filing date of this application.



INVESTOR IN PEOPLE

**Your ref:** 24.0842  
**Application No:** GB 0122631.5  
**Applicant:** Schlumberger Holdings Ltd & Japan National Oil Corporation

**Examiner:** Geoff Holmes  
**Tel:** 01633 814679  
**Date of report:** 28 May 2002

**Latest date for reply:** 28 November 2002

Page 1/1

## **Patents Act 1977**

### **Combined Search and Examination Report under Sections 17 & 18(3)**

#### **Clarity and support/Sections 14(5)(b) and 14(5)(c)**

1. The statement of invention on page 4 states that the 'controller is adapted to cause detection of the inelastic gamma ray phenomena during each burst [of neutrons] and to cause detection of the neutron slowing down time phenomena proximate the end of each burst'. However claim 15 specifies that the controller merely enables detection of the inelastic gamma ray phenomena, and is therefore not supported by the description.

2. Some amendment will be needed in order to remove these inconsistencies and satisfy the above sections.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Dean M. Norman et al.

Serial No.: 09/929,680

Filed: 10/12/00

For: Method and Apparatus for Subsurface Measurements  
With Directional Sensitivity Particularly Adapted for  
Reservoir Monitoring Applications



) Docket: 20.2751

) Group Art Unit: 2862

) Examiner: Patidar, Jay M.

RECEIVED  
JUN 26 2002  
TECHNOLOGY CENTER 2862

CERTIFICATE OF MAILING	
I hereby certify that this correspondence (along with any document referenced as being attached or enclosed hereto) is being deposited with the United States Postal Service in an envelope as First Class Mail addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:	
<u>Kerry Morris</u>	<u>6/20/02</u>
Kerry Morris	Date

Assistant Commissioner for Patents  
Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

The attached Form PTO-1449 is submitted to the United States Patent and Trademark Office under the provisions of 37 CFR 1.97-1.98. A copy of each reference is enclosed.

Each reference was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

No fees are believed to be due in connection with this filing, however, should any fees be deemed necessary, please charge any necessary fees to the deposit account for Schlumberger Technology Corporation, Account No. 19-0610.

Respectfully Submitted,

Victor H. Segura

Victor H. Segura  
Registration Number 44,329

Date:

19-Jun-02

Schlumberger Technology Corporation  
IP Law Department  
P. O. Box 2175  
Houston, TX 77252-2175  
Tel.: (281) 285-4562



INVESTOR IN PEOPLE

Schlumberger Holdings Limited  
% B D Stoole  
WesternGeco Limited  
Schlumberger House  
Buckingham Gate, Gatwick  
West Sussex RH6 0NZ

**The Patent Office**  
**Patents Directorate**

Concept House  
Cardiff Road, Newport  
South Wales NP10 8QQ

Examiner: 01633 814689  
E-mail: [tony.oldershaw@patent.gov.uk](mailto:tony.oldershaw@patent.gov.uk)  
Switchboard: 01633 814000  
Fax: 01633 814444  
Minicom: 08459 222250  
DX 722540/41 Cleppa Park 3  
<http://www.patent.gov.uk>

**Your Reference:** 20.2751  
**Application No:** GB 0120510.3

5 June 2002

Dear Sirs

**Patents Act 1977:**  
**Combined Search and Examination Report under Sections 17 and 18(3)**

Latest date for reply: 

5 December 2002
-----------------

I enclose two copies of my search and examination report and a copy of the citations.

By the above date you should either file amendments to meet the objections in the report or make observations on them. If you do not, the application may be refused.

### **Publication**

I estimate that, provided you have met all formal requirements, preparations for publication of your application will be completed soon after **9 July 2002**. You will then receive a letter informing you of completion and telling you the publication number and date of publication.

### **Amendment/withdrawal**

If you wish to file amended claims for inclusion with the published application, or to withdraw the application to prevent publication, you must do so before the preparations for publication are completed. **No reminder will be issued.** If you write to the Office less than 3 weeks before the above completion date, please mark your letter prominently: **"URGENT - PUBLICATION IMMINENT"**.

---



INVESTOR IN PEOPLE

Application No: GB 0120510.3

Page 2

5 June 2002

Yours faithfully

A.J. Oldershaw  
A J Oldershaw  
Examiner

**Important information about combined search and examination**

I also ask that you take note of the following points. These might have a bearing on the future stages of your application because the examination report has been sent to you before your application has been published.

- (a) You may file voluntary amendments before making a full response to my examination report. We will publish with your application any new or amended claims you file voluntarily or as a full response, provided that they are received before preparations for publication are completed. It would help us when you file amendments before publication if you could **prominently indicate** in a covering letter whether or not the amendments are intended as a full response to the examination report.
- (b) If you file a full response to the examination report before your application is published I will consider it as soon as possible. However, if this would disrupt the publication of your application, I would have to delay taking any action until the application had been published. This delay could be up to 3 months, depending upon when we receive your response.
- (c) There is another situation when there might be a delay between you filing a full response and the Patent Office responding to it. This would arise if you met all my objections but your application had not or had only recently been published. I could not report the outcome of my re-examination until I was satisfied that the search was complete for documents published before the priority date of your invention and that anybody interested in the application has had three months following publication of the application to make observations on the patentability of your invention.
- (d) Provided that the requirements of the Act have been met, I can send your application to grant as early as three months after publication. Before doing so I will bring the original search up to date and raise with you any further objection that might result from this top-up search. However, there is a possibility that at that time I may not have access to all the patent applications published after the priority date of your invention and of possible relevance to your application. If this is the case I would have to complete the search after grant and if necessary raise any new found novelty objection then.





INVESTOR IN PEOPLE

**Application No:** GB 0120510.3  
**Claims searched:** 1 to 10 and 16 to 24

**Examiner:** A J Oldershaw  
**Date of search:** 31 May 2002

## **Patents Act 1977**

### **Search Report under Section 17**

#### **Databases searched:**

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): G1N NCLE, NCLF, NCLH, NCLL

Int Cl (Ed.7): E21B; G01V

Other: Online: WPI, EPODOC, JAPIO

#### **Documents considered to be relevant:**

Category	Identity of document and relevant passage	Relevant to claims
A,E	GB2364391A (SCHLUMBERGER HOLDINGS)	
A	WO00/00852A1 (DEN NORSKE STATS OLJESELSKAP)	
A	WO00/00851A1 (DEN NORSKE STATS OLJESELSKAP)	
A	WO00/00850A1 (DEN NORSKE STATS OLJESELSKAP)	
A	US5233304 (SOCIETE NATIONALE ELF)	

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.

E Patent document published on or after, but with priority date earlier than, the filing date of this application.



INVESTOR IN PEOPLE

Your ref: 20.2751  
Application No: GB 0120510.3  
Applicant: Schlumberger Holdings Limited

Examiner: A J Oldershaw  
Tel: 01633 814689  
Date of report: 5 June 2002

Latest date for reply: 5 December 2002

Page 1/1

## **Patents Act 1977**

### **Combined Search and Examination Report under Sections 17 & 18(3)**

#### **Plurality of invention**

1. Your claims define two separate inventions not forming a single inventive concept. The inventions are:

- i. the apparatus and method for monitoring a characteristic of a reservoir employing one or more antennas permanently disposed within a borehole about a tubular with the axes of the antennas tilted with respect to the axis of the tubular of claims 1 to 10 and 16 to 24 and
- ii. the apparatus and method for monitoring a characteristic of a reservoir employing one or more saddle coils permanently disposed within a borehole about a tubular of claims 11 to 15 and 25 to 29.

2. You will need to amend your claims, so that they relate to only one invention or inventive concept. You will also need to make consequential amendments to the description. You may wish to consider filing a divisional application. Any such application should normally be filed no later than 3 months before the expiry of the period for putting the present application in order.

#### **Scope of search**

3. In accordance with Section 17(6), only the first of these inventions has been searched. The other invention can be searched if you wish. In this case you will have to file a further Form 9/77.

#### **What this report covers**

4. I have not been able to consider the novelty or obviousness of the unsearched invention.

#### **Non-metric units**

5. The equivalent metric values should be given alongside the non-metric values